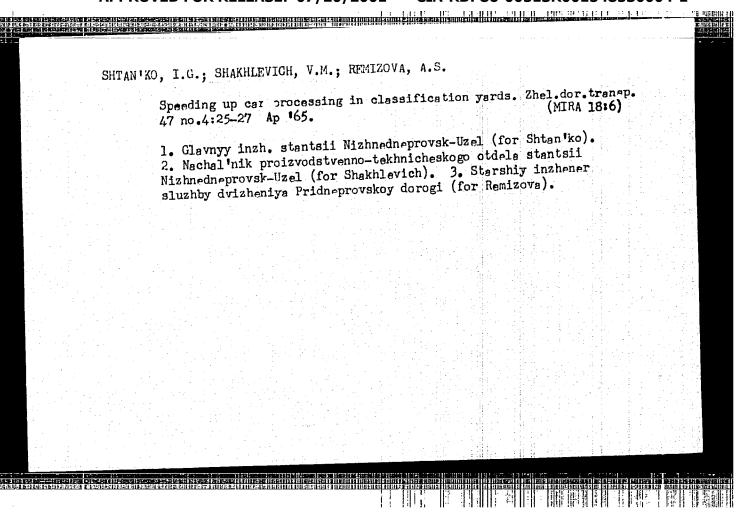
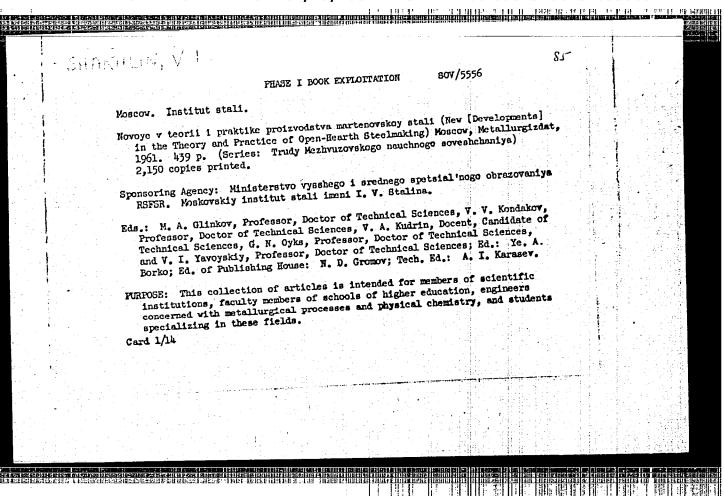
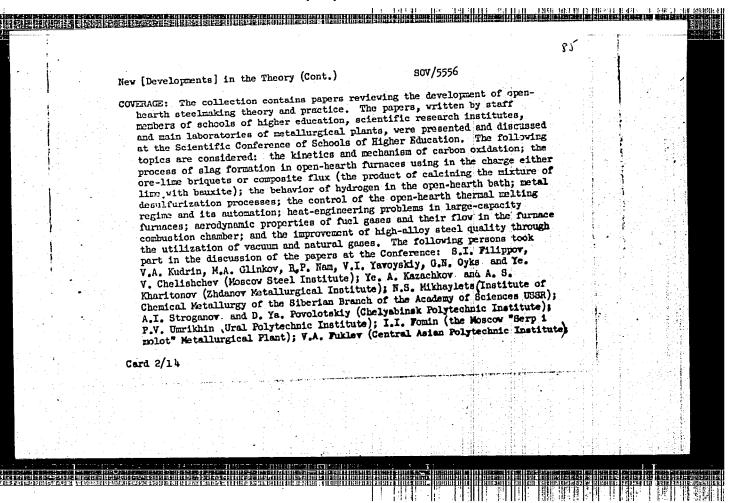
SHAKHLAMOV, V. A.

"Aseptic Inflammation in the Ovary of White Rats on Partial Bilaterial Removal and Chronic Stimulation of the Cerebral Cortex," p. 200

from the book "Effect of Higher Divisions of the Nervous System on Processes on Inflammation and Regeneration," edited by V. G. Yeliseyev, on Inflammation and Regeneration, edited by V. G. Yeliseyev, Trudy 1-go Moskovskogo Ordena Lenina Meditsinskogo Instituta Imeni I. M. Sechenova Vol. 2, Moscow, 1957, 249 pp.







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	New [Developments] in the Theory (Cont.)			
	and M.I. Beylinov (Night School of the Dneprodzerzhinsk Ketallurgical References follow some of the articles. There are 268 references, mos	tly Soviet.		
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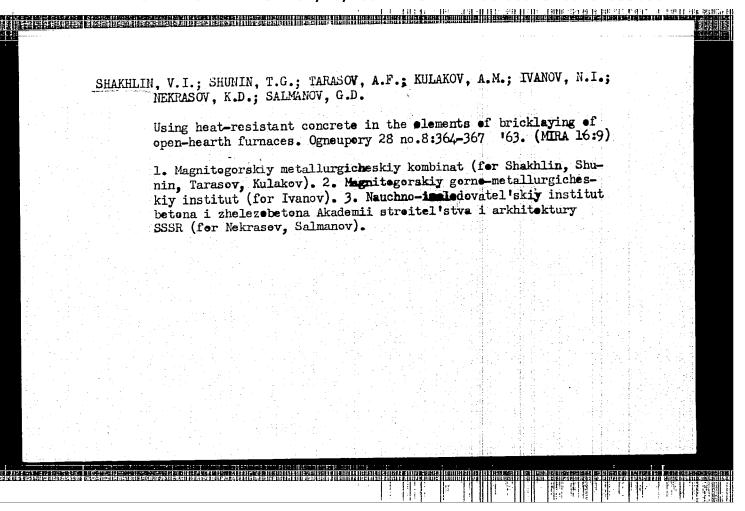
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	New [Developments]in the Theory (Cont.) SCV/5556	6	200
	Gol'dfarb, E.M. [Candidate of Technical Sciences, Despropetrovsk Metallurgical Institute]. Introduction to the Similarity Theory of Open-Hearth Furnaces		
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	Ivanov, N.I. [Docent, Candidate of Technical Sciences], V.7. Gazhur, and Y.I. Shakhlin [Engineers], [Magnitogorskiy metallurgicheskiy kombinat - Magnitogorsk Matallurgical Combine; Magnitogorskiy gorno-metallurgicheskiy institut - Magnitogorsk Mining and Metallurgical Institute]. Theoretical Detection	25) 1	
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IVANOV, N.I., kand.tekhn.nauk; KUIAKOV, A.M., inzh.; SHAKHLIN, Y.I., inzh.; GAZHUR, F.G., inzh.; NADYRSHINA, L.S., inzh.; TVILINEV, F.Ta., inzh.

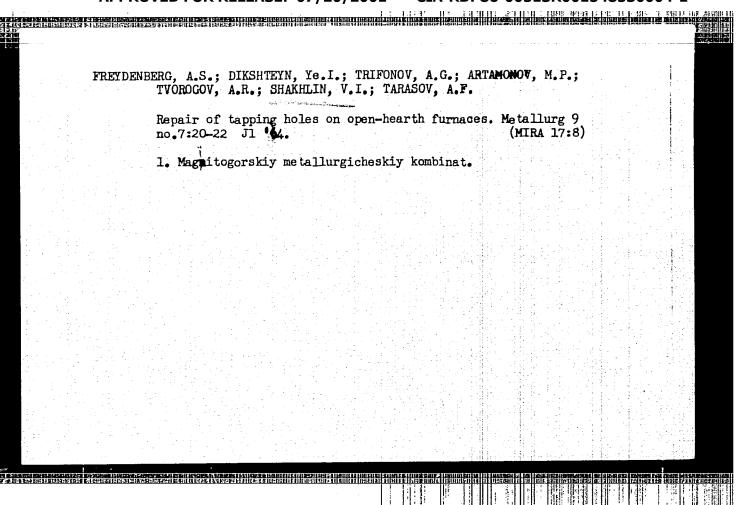
Flame stands for the investigation of thermal processes in furraces.
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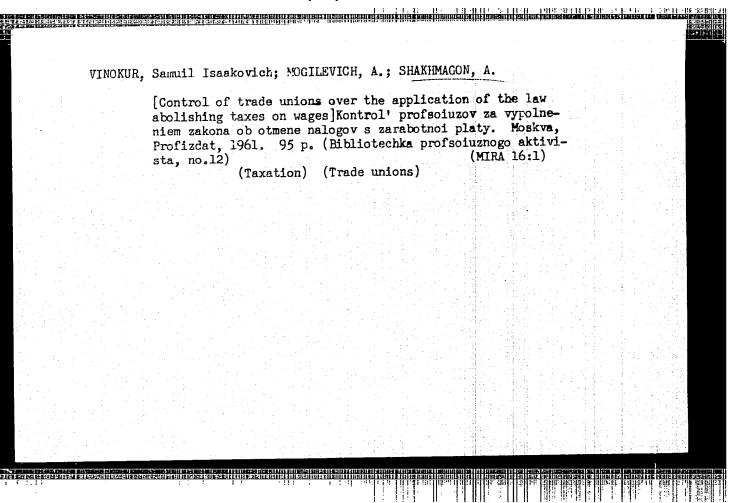
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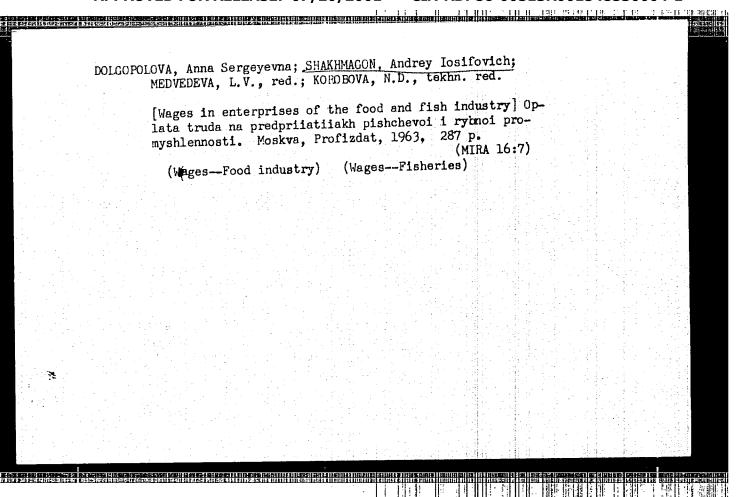
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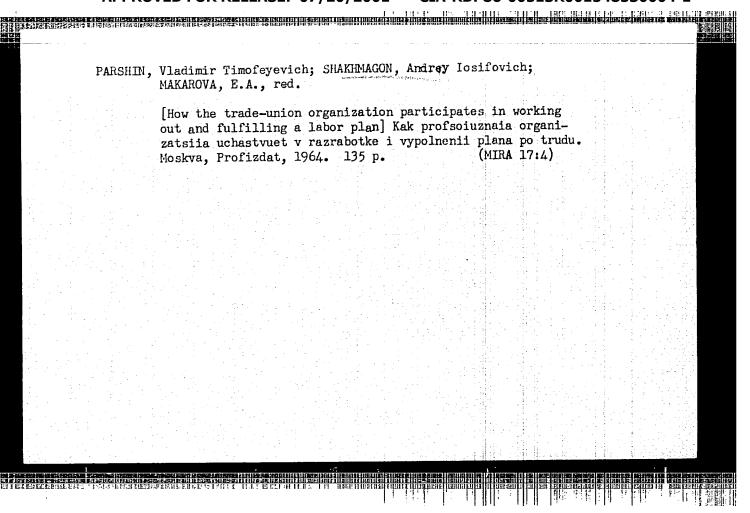


SH	AKHLIN, V.I.; TARASOV, A.F.; SALMANOV, G.D. Testing refractory concrete blocks in soaking pit walls. Ognempory (MIRA 16:10)
	28 no.9:397-400 '63. 1. Magnitogorskiy metallurgicheskiy kombinat (for Shakhlin, Tarasov). 2. Nauchno-issledevatel'skiy institut betone i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR (for Salmanov).









15(6) SOV/101-59-2-5/13

AUTHORS: Gershman, M.I., and Shakhmagon, N.V.

TITLE: A Study of the Sodium Fluosilicate Used in the Capacity of

a Mineralizer in the Calcination of Cement Raw Mixtures

PERIODICAL: Tsement, 1959, Nr 2, pp 17-22 (USSR)

ABSTRACT: Cements now produced must contain a good deal of active

minerals and a minimum quantity of loose calcium oxide.

Calcination of clinker of such composition presents some difficulties and usually must be operated under increased temperatures. These difficulties may be levelled by applica-

tion of mineralizers in the raw material mixture. The by-product from the superphosphate plants at the Urals, Southern regions and Kazakhstan, consisting almost entirely of Na SiF. can be successfully applied for the mineraliza-

of Na₂SiF₆, can be successfully applied for the mineralization purposes. The Niitsement (State All-Union Scientific Research Institute of the Cement Industry) has studied the

possibility of using sodium fluosilicate, barium sulfate, card 1/4 calcium sulfate, ferric oxide, and ferrous sulfate in the

SOV/101-59-2-5/13

A Study of the Sodium Fluosilicate Used in the Capacity of a Mineralizer in the Calcination of Cement Raw Mixtures

capacity of mineralizers, the latter being a waste product of the fertilizer plants containing sodium fluosilicate combined with fluorine salts. Mineralizing action of these admixtures was compared with the action of fluorspar. Experiments performed at the Podol'skiy opytnyy zavod (Podol'sk Experimental Plant) belonging to the State All-Union Scientific Research Institute of the Cement Industry, with the laboratory electric furnace, followed by experiments with 8 m and 16 m kilns, have proved that the mineralizing properties of sodium fluosilicate are superior to those of fluorspar. The addition of 1.2% of sodium fluosilicate favorably influenced conditions of the calcination process. The amount of loose calcium oxide in the clinker samples was found to be small. Its content was 0.34% against 1.68% found in the clinker calcinated without mineralizer. For verification purposes, samples of clinkers were extracted from the kilns during the calcination

Card 2/4

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A Study of the Sodium Fluosilicate Used in the Capacity of a Mineralizer in the Calcination of Cement Raw Mixtures

process. Figure 3 and Figure 4 show the effect of the introduction into the mixture of sodium fluosilicate in the fluid and hard-material periods of the process. In the 8 m kiln, for calcination of the mixture with mineralizer, the temperature has dropped by 80 to 900, against the temperature measured during the process without mineralizer. Comparative strength tests have proved, for cements obtained from ground clinker produced in 8 and 16 m kilns, with the addition of gypsum, that under compression, the strength was much the same for samples made of cement with or without mineralizer. As for the tensile tests, the strength of cement containing Na SiF6 as mineralizer was greater than that of the cement not containing sodium fluosilicate. Concluding, the authors state that sodium fluosilicate contributes to the activation of the calcination process of clinker. Introduction of 1.2% of Na SiF enables

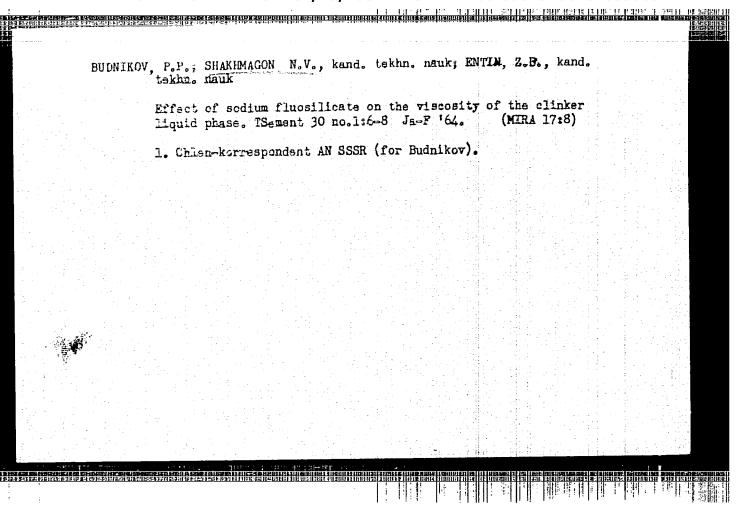
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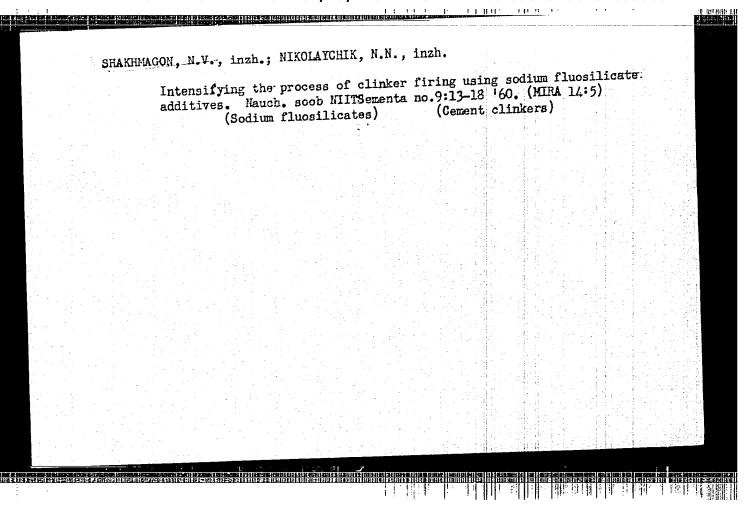
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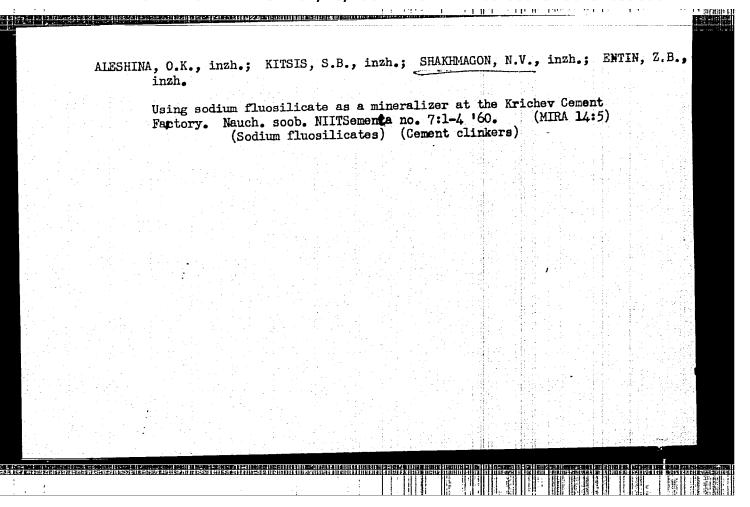
A Study of the Sodium Fluosilicate Used in the Capacity of a Mineralizer in the Calcination of Cement Raw Mixtures

to reduce the moisture of the slime by 8%, but it also may create a state of a temporary thickening of the slime. In view of such changeable action, depending upon the initial composition of the raw material mixture, cement plants must thoroughly consider the future effect of the introduction of this mineralizer into their raw material, prior to the calcination. There are 2 graphs and 5 tables.

Card 4/4







BUTT, Yu.M.; SHAKHMAGON, N.V., inah.

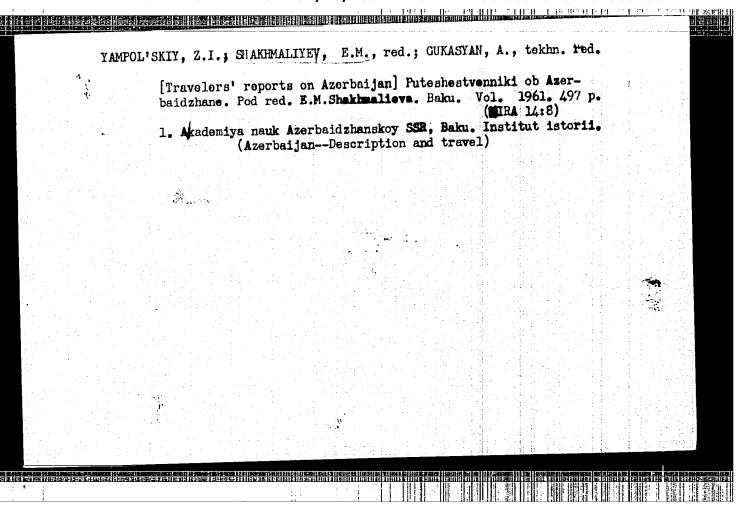
Investigation of the mechanism of the mineralizing activity of sodium fluosilicate. Trudy NIITSement no.15:3-31 '61.

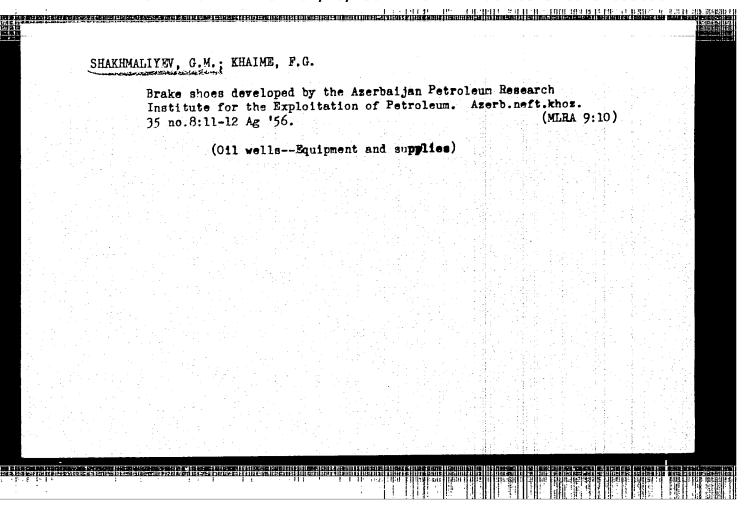
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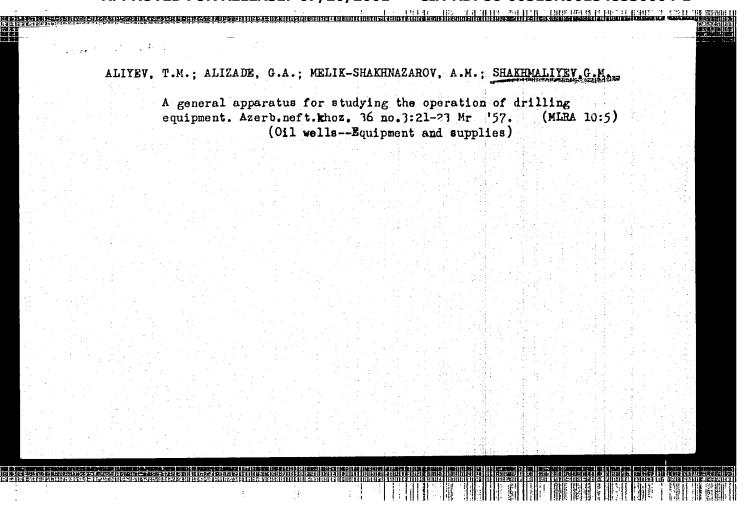
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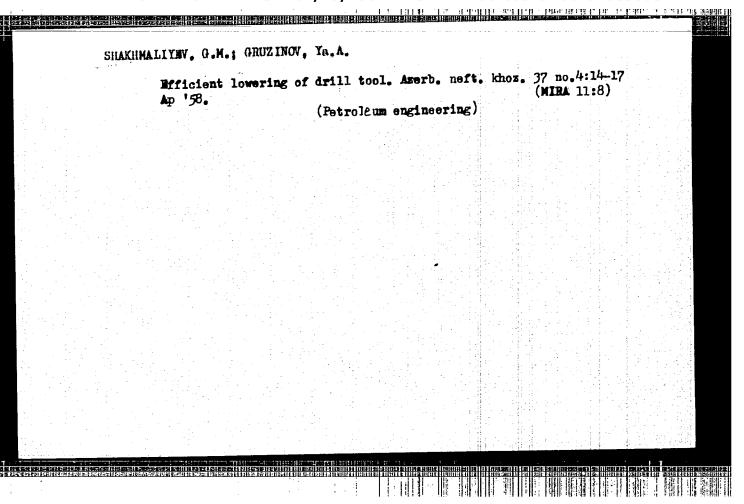
(Sedium fluosilicate) (Cement clinkers)

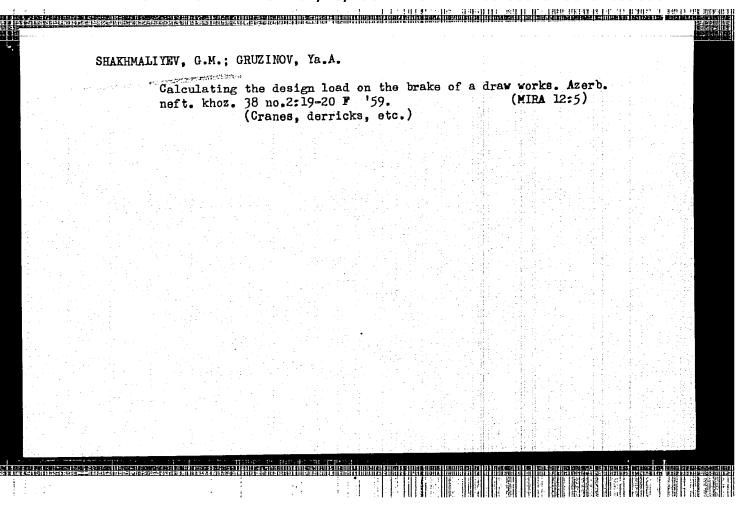




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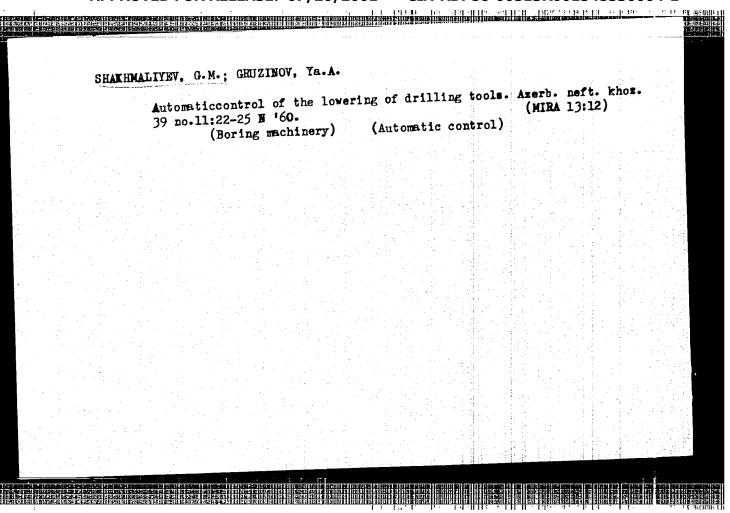


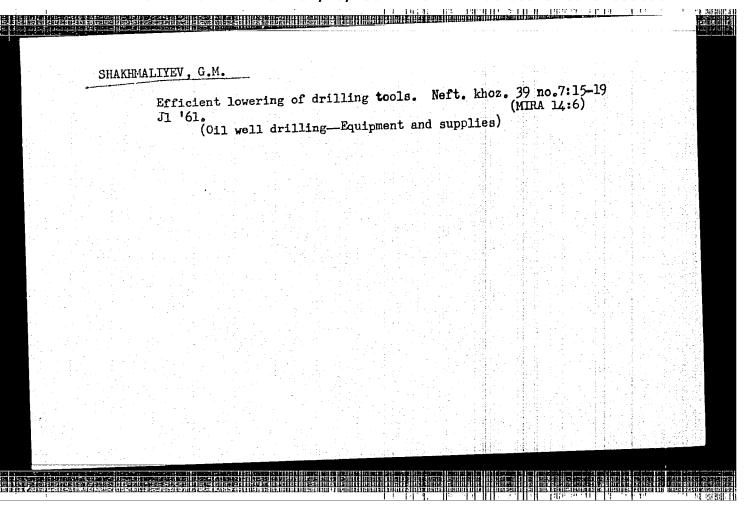


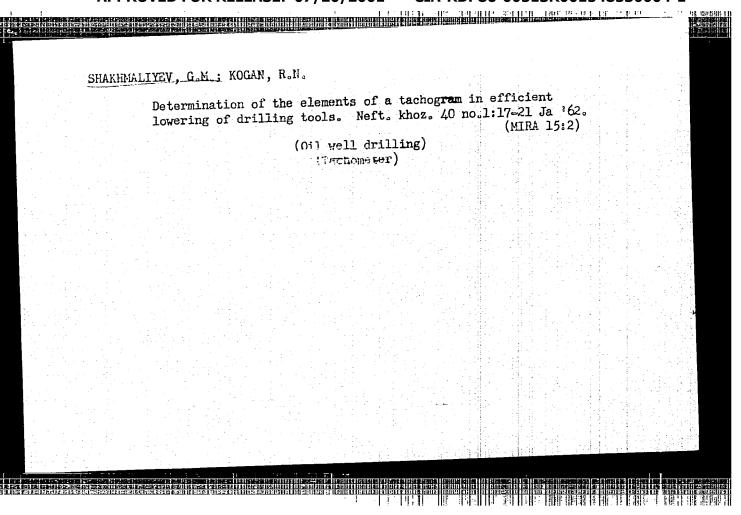
SHAKHMALIYEV, Gasan Mursalovich, dots., kand. tekhn. nænk; SHCHEDROV, V.S., prof., doktor tekhm. nauk, red.; RASHEVSKAYA, T.A., red. izd-va [Studying the performance of a mechanical brake on a drow-works and devising an efficient system of lowering a drill tool] Issledovanie raboty mekhanicheskogo tormoza burovoi lebedki i razrabotka ratsional!nogo rezhima spuska buril nogo instrumenta. Red. V.S.Shchedrov. Baku, Azerbaidzhasnkoe gos. izd-vo neft. i nauchno-tekhn. lit-ry, 1960. (MIRA 14:7) (Oil well drilling) (Winches)

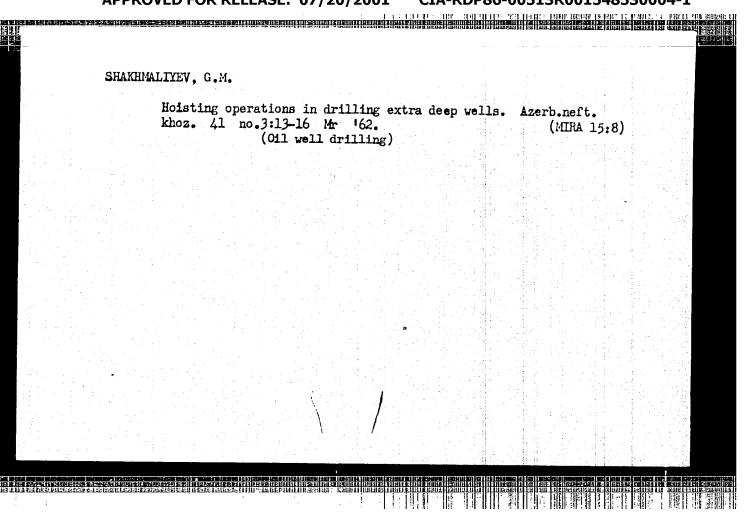
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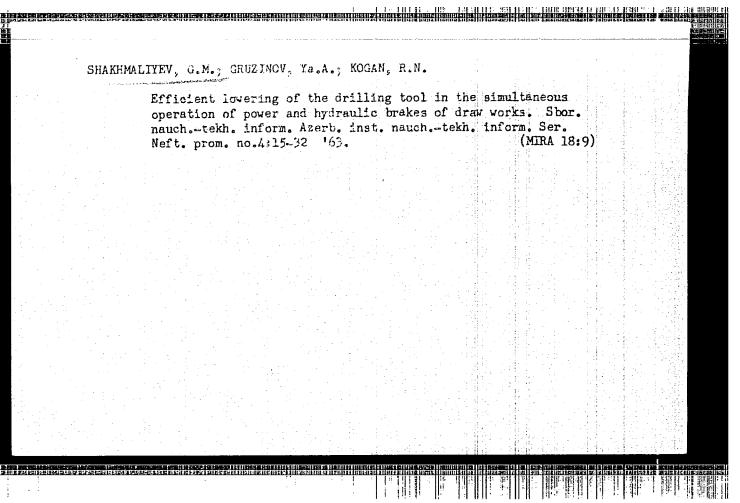
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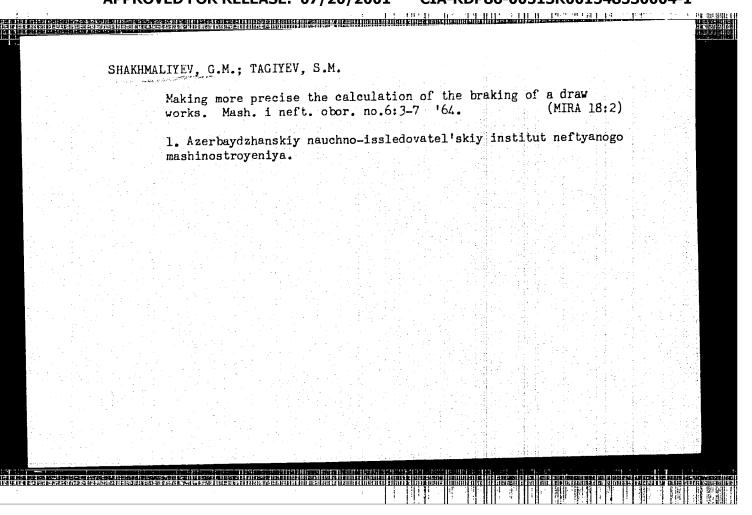












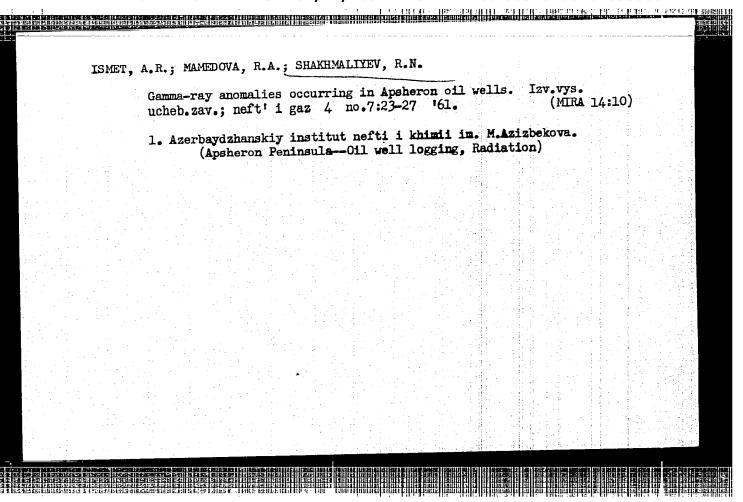
SHAKHMALIYEV, G.M.; TAGIYEV, S.M.

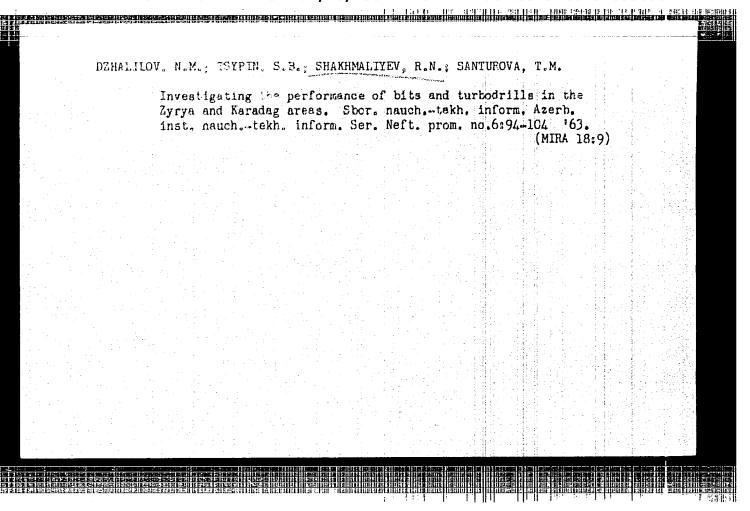
Determining the actual area of the tangency of the pair,
"metal-friction material," with temperatures up to 600° C.
Dokl. AN Azerb. SSR 20 no.8:41-44 '64. (MIRA 17:12)

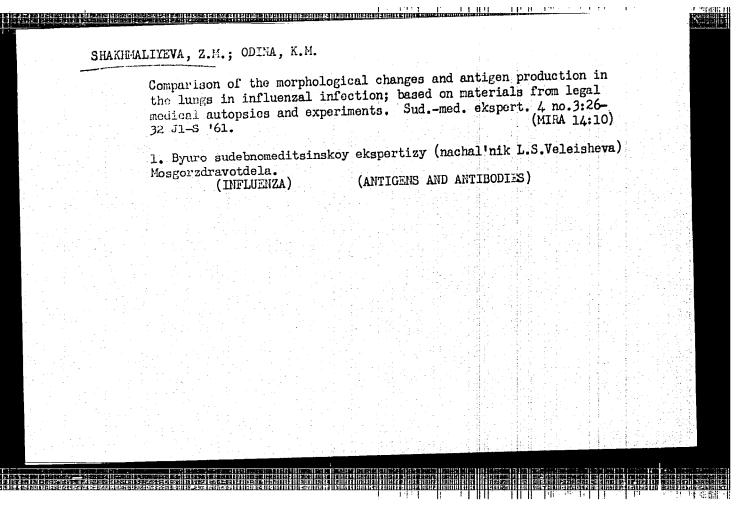
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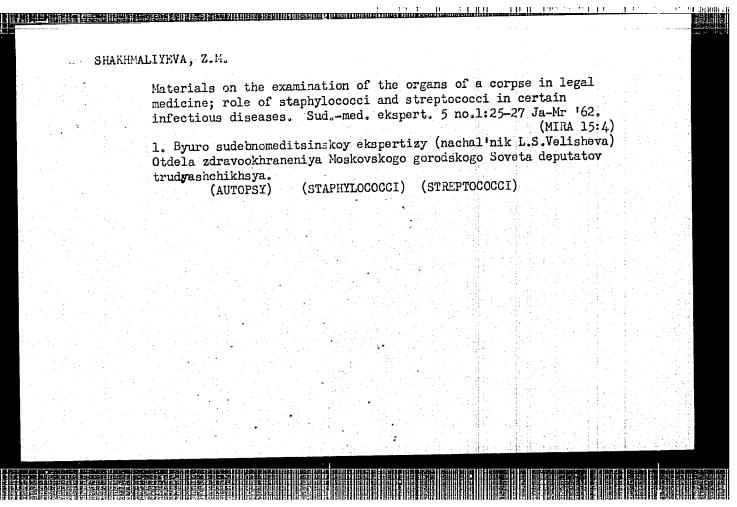
ENT(m)/ENP(w)/EPE(c)/ENP(1)/ENA(d)/T/EAP(t)/ENP(z)/ENP(b) UR/0000/65/000/000/0100/010; ACCESSION NR: AT5022669 MJW/JD/DJ/GS Shakhmaliyev, G. M. AUTHOR: TITLE: Investigation of the true contact area in friction couples at normal and high temperatures SOURCE: AN SSSR. Nauchnyy sovet po treniyu i smazkam. Teoriya treniya i iznosa (Theory of friction and wear). Moscow, Izd-vo Nauka, 1965, 100-103 TOPIC TAGS: contact friction, friction coefficient, friction contact area/ FK 24A lubricant ABSTRACT: The actual contact area in friction couples of steel 3 (6-9 class finish) and lubricant FK-24A was determined by the luminous paint method of S. M. Tagiyev (Lyuminestsentnyy metod opredeleniya fakticheskoy ploshchadi kasaniya. Za tekhnicheskiy progress, 1963, No. 9) on 100, 400, and 900 mm² specimens at 4, 6, 8, and 10 kg/cm² loadings. It was found that the specific contact area η = A_r/A_a (A_r = contact area; A_a = nominal area) increased linearly with the nominal load P and increased strongly as the surface roughness H was decreased below 3 micron (was fairly independent for H > 3 micron). Representative values were $\gamma = 1.2-1.5$ linearly as P increased from 4-10 kg/cm² (H = 3.1 micron) and

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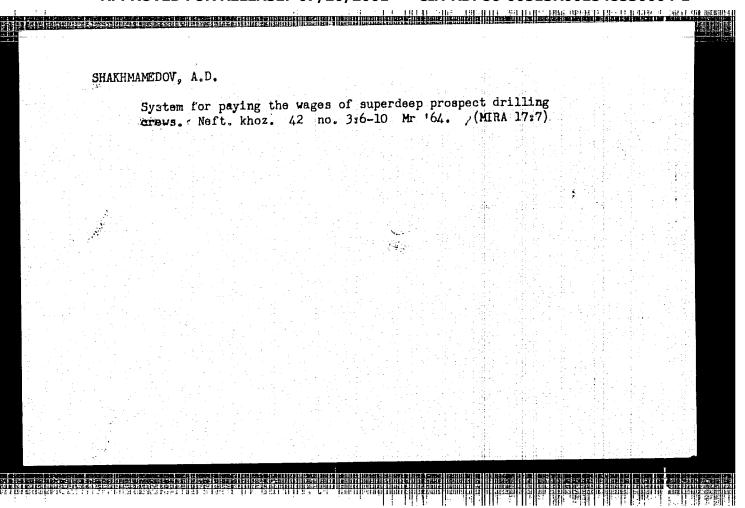
"Bleaching Properties of Binagadinks and Karachukhursk Clays"

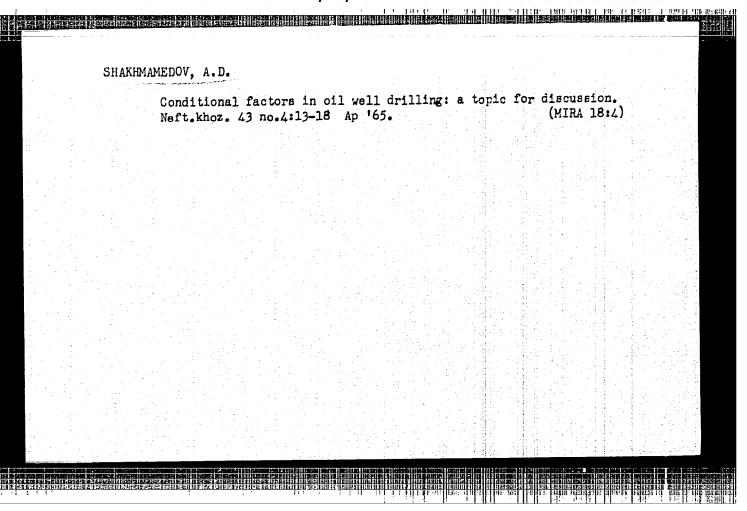
Azerbaychan SSR Elmler Akademiyanynyn m'ruzeleri, 9, No 7, 1953, 381-384

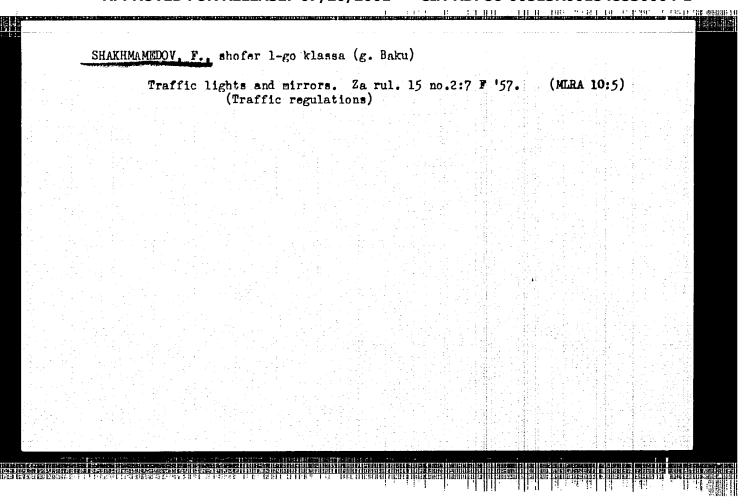
(Azerbaydzhani with Russian resume)

The best clays of the Apsheron Peninsula for bleaching cily distillates are clays from the Binagadinsk and Karachukhursk deposits. As adsorbents in the cleaning of cils they are not worse than gumbrin (a clay peculiar to Russia), but yield to gumbrin in the matter of speed of filtration and oil capacity. (RZhGeol, No 6, 1955)

SO: Sum-No 787, 12 Jan 56







USEN/Form Animals. Herses.

Abs Four: kef Zhur-Diol., He 20, 1958, 92524.

Author : Chalkhardamev, E.A.
Hist : Heseow V.terinary Academy.
Title : Tepography of the Lyoph Nedes in the Wads of Merses.

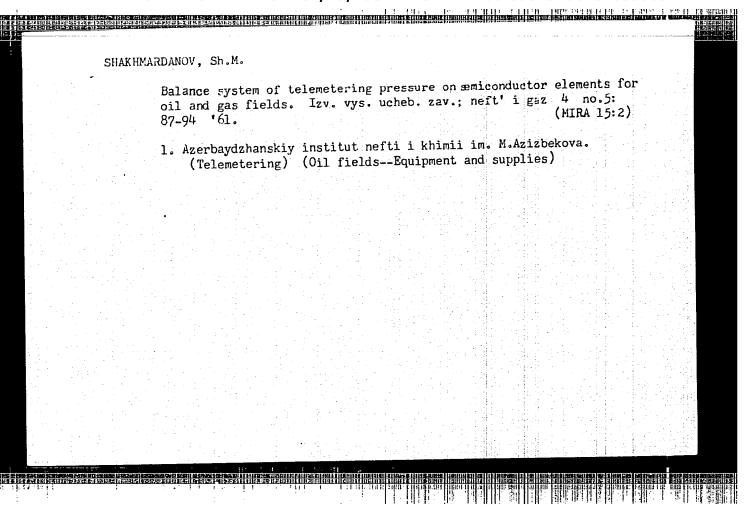
Original: Tr. Mosk. vet. akad., 1957, 19, vyp. 2, ch. 1, 111-116.

Abstract: Using 26 horses of various ages, sexes and breeds, the author gives a start description of the external resultary, superficial temporal, internal carotid, external carotid and general carotid cranial lymphatic nodes which have been described by him.

Card : 1/1

USCA/Form Animals. Horses. Abs Jour: Ref Zhur-Biol., No 20, 1958, 92523. Audior : Shakhrardanov, E.A. : Moscow Veterinary / readery. Inst : Deep Lymphatic Vessels of the Preosseous Layer in Title the Head of Horses and Their Connection with the Superficial Vessels. Orig Put: Tr. Mosk. vet. akad., 1957, 19, vyp. 2, ch. 1, 117-120. Abstract: Deep lymphatic vessels form bundles (from 1 to 8) which accompany the corresponding arteries. Deep lymphatic vessels of the facial region of the head are not always accompanied by branches of the facial artery. Deep lymphatic vessels of the large musculus masseter are always accompanied by arteries: to every intraorganic artery there corresponds one deep lymphatic : 1/2 Card 24

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L 13614-65 ACCESSION NR: AP4046788 5/0115/64/000/008/0034/0036

AUTHOR: Melik-Shakhnazarov, A. M.; Shayn, I. L.; Shakhmardanov, Sh. M.

TITLE: Automatic a-c compensator with an astatic-static balance

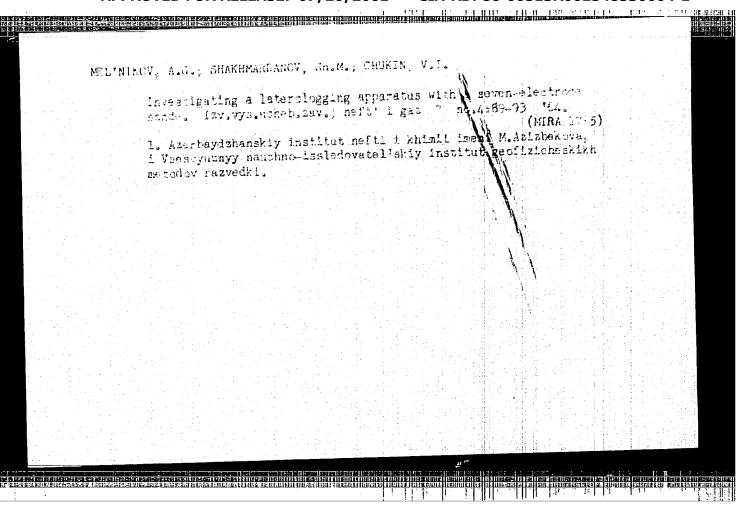
SOURCE: Izmeritel'naya tekhnika, no. 8, 1964, 34-36

TOPIC TAGS: AC compensator, single rheachord compensator

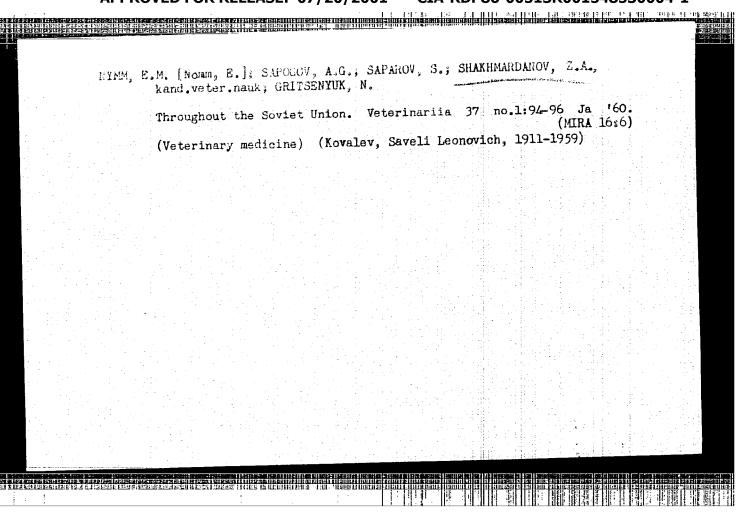
ABSTRACT: A new automatic single-rheochord a-c compensator is described. The compensator permits measuring both components of the voltage alternatively by using one balancing channel (one electronic amplifier, one final element, one readout). High accuracy is attained through simultaneous compensation of both components of the measurand, one of them being compensated astatically by means of the actuator motor and the rheochord, and the other by means of a negative feedback taken from a preamplifier. The voltage component measured on the rheochord scale is noted, and then the phases of compensating and

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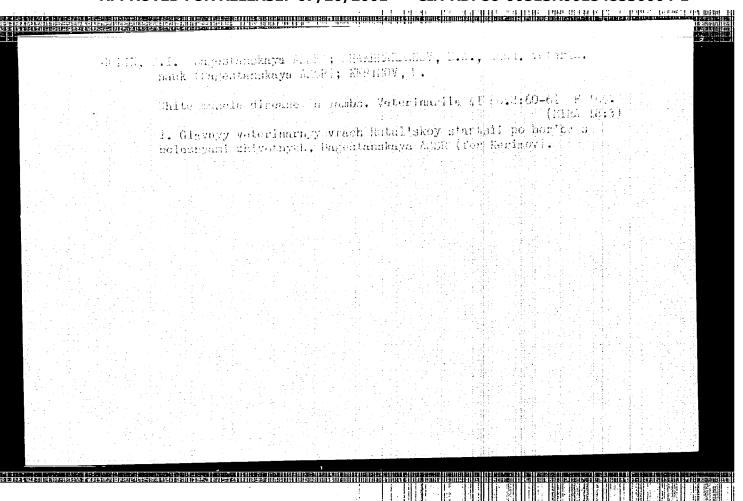
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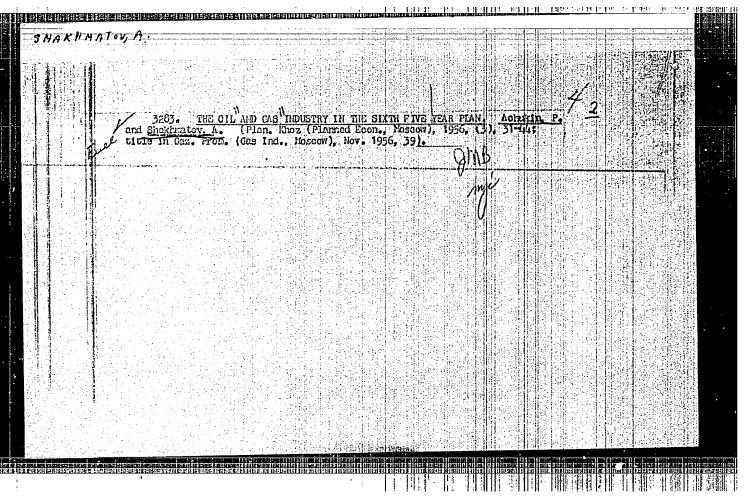
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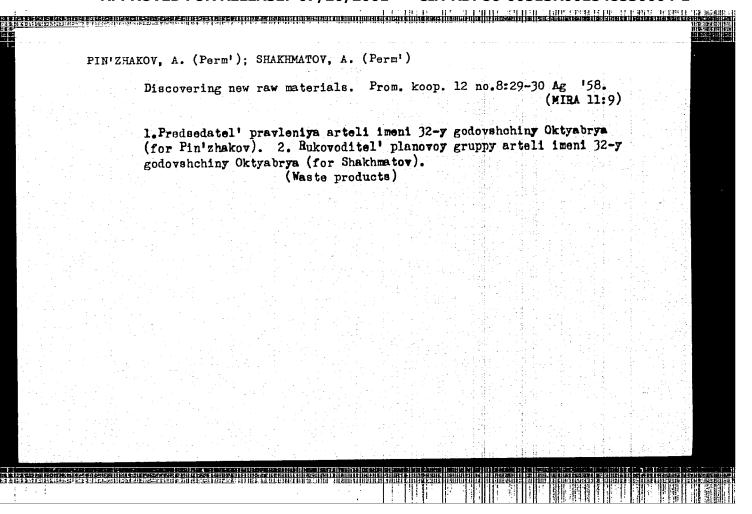


GADZHIYEV, S.M., otv. red.; ALIVERDIYEV, A.A., doktor biol. nauk, red.; PLEKHANOV, N.I., kand. biol. nauk, red.; RUKHLYADEV, D.P., kand. veter. nauk, red.; SHAKHMARDANOV, Z.A., kand. veter. nauk, red.; EMIRBEKOV, E.Z., kand. biol. nauk, red.

[Problems of physiology, biochemistry, zoology and parasitology; collection of papers of the Departments of Zoology and Organic and Biological Chemistry] Voprosy fiziologii, biokhimii, zoologii i parazitologii; sbornik nauchnykh soobshchenii kafedry zoologii i kafedry organicheskoi i biologicheskoi khimii. Makhachkala, Dagestanskoe knizhnoe izdvo, 1965. 168 p. (MIRA 19:1)

1. Makhach-Kala. Dagestanskiy gosudarstvennyy universitet.



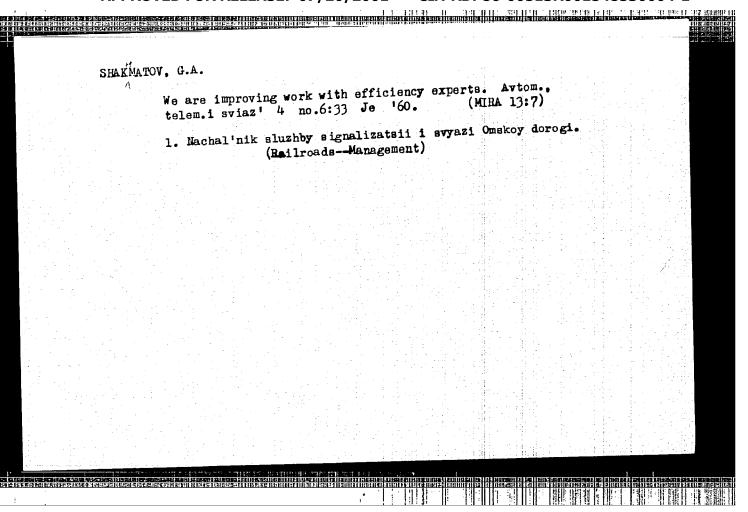


SHAKEMATOV, G., EEGHIR, S.

Radio communication between dispatchers and conductors of electric locomotives.

P. 6. (ZELEZNICAR) (Praha, Czechoslovakia) No. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958



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B 1 to DECEMBER 1993	HERE STATES AND STATES OF THE
SHAKHMA	ATOV, G. A., inzh. (Novosibirsk)
	Automatic stops in high speed traffic. Zhel. dor. transp. 45 no.1:70-73 Ja '63. (MIRA 16:4)
	l. Nachalinik sluzhby signalizatsii i svayzi Zapadno-Sibirskoy dorogi.
	(RailroadsAutomatic train control)

USSR/Diseases of Farm Animals - Discases Caused by Protozoa.

R-3

Abs Jour

: Ref Zhur - Biol., No 10, 1958, 45521

Author

Shakhmatov, G.N.

Inst Title : Prophylaxis and Treatment of Hemosporidiosis in Cattle

with a Specific Anti-Hemosporidiosis Hyperimmune Serum.

Orig Pub : Khodzhagiyi kishloRi Todzhikiston, 1957, No 6, 49-52;

S. kh. Tadzhikistana, 1957, No 6, 40-43.

Abstract

The hyperimmune serum was obtained from animals hyperimmunized with increasing doses of defibrinated blood taken from the cattle affected with mixed forms of hemosporidiosis. The animals affected with piroplasmosis, fransaillesis [sic] and theleriasis, treated with this scrum in the initial stage of disease, recovered in 90% of cases. The use of hyperimmune serum for phophylaxis, together with simultaneous injection of the virulent blood, has

also produced positive results.

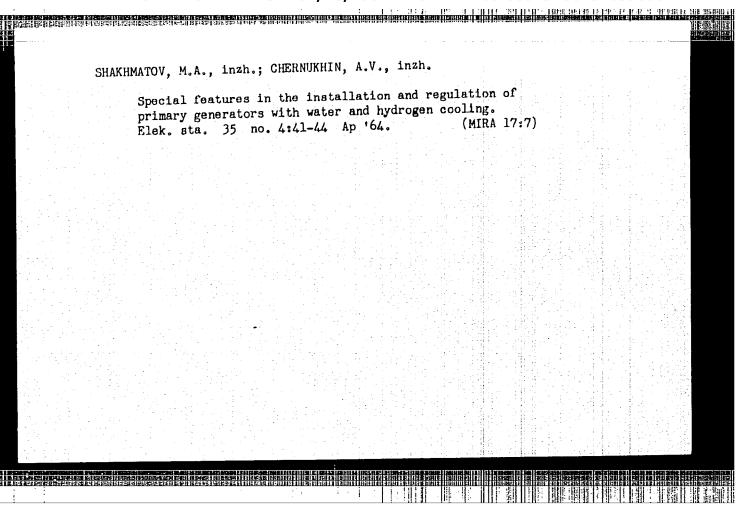
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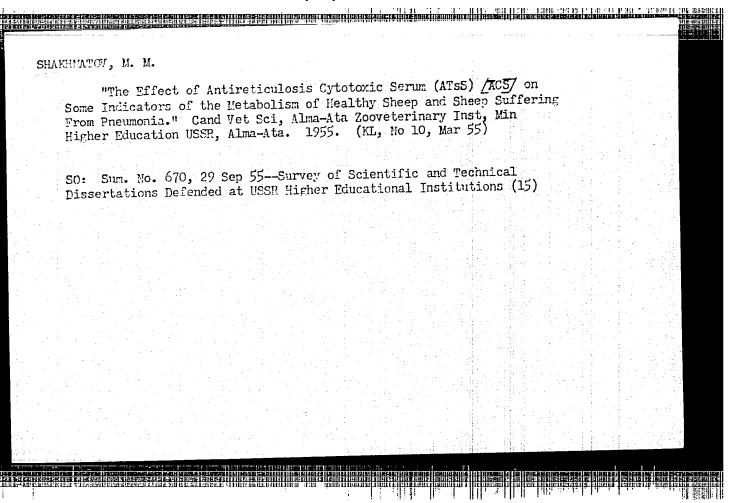
CIA-RDP86-00513R001548530004-1 **APPROVED FOR RELEASE: 07/20/2001**

ANTONYAM, Aram Isaakovich; SHAKHMATOV, Maksim Anan'yevich;
TITOV, V.V., kand. tekhn. nauk, retsenzent; KLETMAN,
L.I., inzh., red.; ZHITNIKOVA, O.S., tekhn. red.

[Installation of hydrogen-cooled turbogenerators] Montazh
turbogeneratorov s vodorodnym okhlazhdeniem. Moskva, Gosenergoizdat, 1963. 207 p.

(MIRA 17:3)





SHARAMINTOU. HM.

Q-2

USSR / Farm Animals. Small Hornod Stock.

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105673.

Author Inst

Metabolism Indexes of Healthy Sheep. Title

Orig Pub: Tr. In-ta okspor. biol. AN KazaaR, 1958, 4,

106-109.

Abstract: The subcutaneous introduction of antireticular cytotoxic scrum (ACS) to (20 head of) sheep in

a dose of 0.3 titer unit per 1 kg. of live weight (AOS titer 1: 400) altered the physicomorphological composition of the blood of these shoep. There occurred an increase in the quantity of Hb, crythrocytes, loucocytes, reserve alkalinity,

Card 1/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R001548530004-1"

USSR / Ferm Animals. Small Hornod Stock.

2-2

Abs Jour: Rof Zhur-Biol., No 23, 1958, 103673.

Abstract: general and restored blood glutathione, residual

nitrogen of the scrum, a decrease in the percentage of the content of general protein and globulins, and an increase in the quantity of

albumins in the sorum.

BUCHNEV, K.N., prof.; SHAKHMATOV, M.M., kand. veterinarnykh nauk;
TITOV, V.L., nauchnyy sotrudnik; MEN'SHIKOV, L.F., nauchnyy
sotrudnik; KRIVENKO, O.P., vrach-laborant; VOVK, V.I., vrachlaborant; LAISHEVA, M.M., vrach-laborant; POLUBOYAROVA,
G.V., vrach-laborant

Diagnosis of rabies by precipitation reaction in agar gel. Veterinaria 40 no.3:66-70 Mr '63. (MIRA 17:1)

1. Alma-Atinskiy zooveterinarnyy institut (for Buchnev).
2. Laboratoriya virusologii nauchno-issledovatel'skogo
veterinarnogo instituta Kazakhskoy akademii sel'skokhozyaystvennykh nauk (for all except Buchnev).

"APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R001548530004-1 SOCIETATION OF THE PROPERTY OF

SOV/124-58-8-8795

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 67 (USSR)

AUTHOR:

Shakhmatov, M.P.

TITLE:

Investigating the Flow in Bottom Races (Issledovaniye techeniy

v donnykh lotkakh)

PERIODICAL:

Uch. zap. fiz.-matem. fak. Kirg. un-t, 1957, Nr 4, part 1,

pp 3-14

ABSTRACT:

The author examines the flow that develops in a bottom race and in a penstock-tunnel. Experiments designed to test the author's theory of the velocity distribution in bottom races were conducted at the laboratory of the Physics and Mathematics Department of Kirghiz University, where a glass race was used, and on the irrigation system of a collective farm. Along the entire width of the main channel measurements were made of the thickness of the bottom layers of water in that channel that were being drawn into the bottom races; these were the basic measurements. An effort was made to ascertain the shape that a race must have, 1) when the bottom layer of main-channel water that it draws in is to maintain a uniform

Card 1/2

width along the entire width of the channel, and 2) when a

Investigating the Flow in Bottom Races

nonuniform entrainment of main-channel water by an already built race is to be corrected, i.e., if its water-entrainment contour is to be evened out. The author discusses measures to prevent the silting up of races of uniform-entrainment design. Bibliography: 6 references.

A.M. Latyshenkov

SOV/124-58-8-8796

ranslation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 67 (USSR)

AUTHOR:

Shakhmatov, M.P.

TIPLE:

The Design of Bottom Races Intended to Cleanse Channels of Alluvial Deposits (Konstruirovaniye donnykh lotkov dlya ochistki kanalov ot vlekomykh nanosov)

PERIODICAL: Uch. zap. fiz.-matem. fak. Kirg. un-t, 1957, Nr 4, part 1, pp 15-22

ABSTRACT:

Based on premises set forth in a preceding paper of the author's (see RZhMekh, 1958, Nr 8, abstract 8795), recommendations are given here for the calculation and design of bottom races. Given also are formulae for calculating the profile of a variable-height sill, and the author offers two numerical examples which include the calculation and plotting of the sill profile and of the upper cover of the glory-hole discharge conduit.

A.M. Latyshenkov

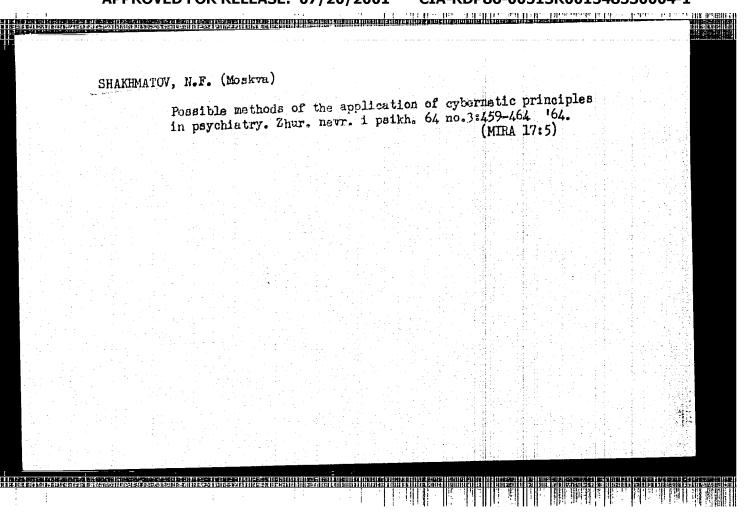
Card 1/1

CIA-RDP86-00513R001548530004-1" APPROVED FOR RELEASE: 07/20/2001

SHAKHMATOV, N. F., Cand Med Sci -- (diss) "Sleep
Disturbances in the Clinic Markets of Old-Age
psychos yes and Their Release Diagnosis." Mos, 1958.

11 pp (Second Mos Marrital State Med Inst im
N. I. Pirogov). 220 copies (KL 40-58, 115)

Fsychiatric service in the Far Last in the pre-revolution period. Trudy Gos. nauch. rest. inst. paids. 402790-296 *63 (MiRA 1727)	The management of the state of	SHAKHMATOV, N.									
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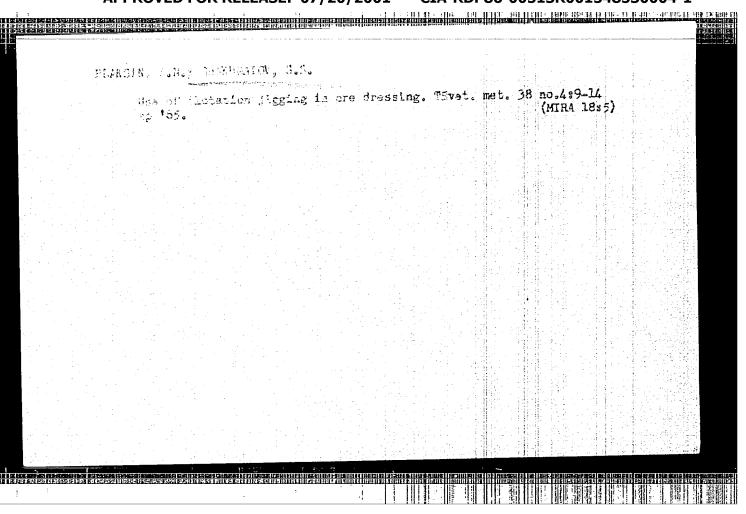


SHAKHMATOV, S.S., gornyy inzh.; USACHEV, P.A., gornyy inzh.; YEFREMOV, A.G., gornyy inzh.; ZELEHOV, P.I., gornyy inzh.; ERRDICHEVSKIY, R.I., gornyy inzh.

Using flotation and settling for dressing nonmagnetic ores. Gor. zhur.
no.7:60-62 Jl '64.

1. Kol'skiy filial All SSSR (for Shakhmatov, Usachev, Mefremov). 2.
Olenegorskiy gornoobogatitel'nyy kombinat (for Zelenov, Berdichevskiy).

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R001548530004-1"



ACC NR. AP6021563

(A

SOURCE CODE: UR/0416/66/000/003/0070/0072

AUTHOR: Nemsberg, Ye. (Docent, Candidate of military sciences, Colonel); Shakhmatov, V. (Docent, Candidate of military sciences, Colonel)

ORG: None

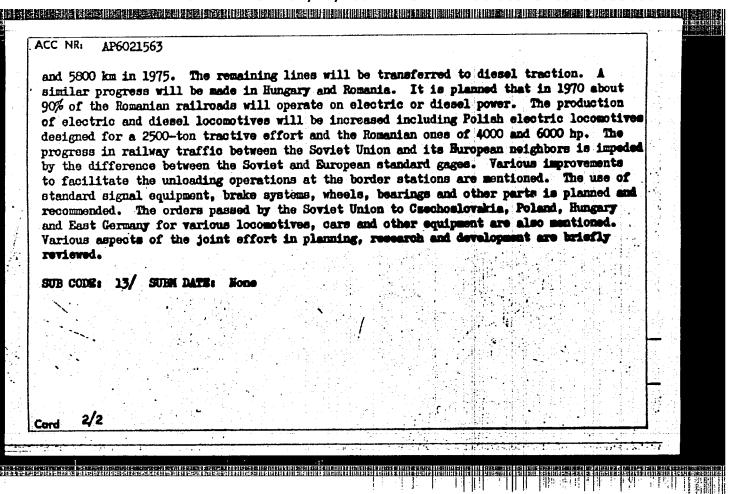
TITLE: Railway development in friendly countries

SOURCE: Tyl i snabsheniye sovetskikh voorushennykh sil, no. 3, 1966, 70-72

TOPIC TAGS: railway transportation, railway equipment

ABSTRACT: The international coordination of railway transportation traffic in the socialistic countries belonging to the Council for Mutual Economic Aid (SEV) is discussed. It is stressed that a special SEV Transportation Commission is responsible for planning and establishing guidelines for various railway transportation improvements. The recommended and adopted plans are coordinated and developed by the Railroad Cooperation Organization (OSZhD). Besides the SEV members, this Organization includes Red China, North Korea, and North Vietnam, while Yugoslavia and Cuba participate as observers. In general, the SSSR railway systems are more developed and better equipped than the railroad networks of the other SEV member-countries. In order to improve the traffic conditions in these countries, a general recomstruction of their trunk lines has been recommended including a wider use of electric and diesel modes of traction. In this connection, it is estimated that the railroad electrification in Poland will be spread over 4000 km in 1970

Card: 1/2



KOVRIZHIN, A.K., inzh.; SHAKHMATOV, V.F., inzh.

Upraise chamber and pillar system with roof bolting for mining thick seems at the Kuznetsk Basin "Ziminka 3-4" mine. lzv. yys.ucheb.zav.; gör.zhur. no.9:3-7 '58. (MIRA 12:6)

1. Tomskiy politekhnicheskiy institut. (Kuznetsk Basin--Coal mines and mining) (Mine roof bolting)

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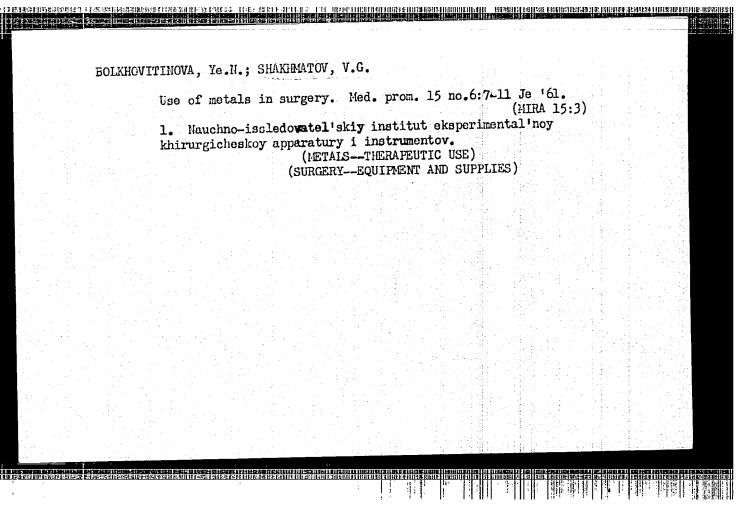
SAPARGALIYEV, G.S., kand. yurid.nauk; PAL'GOV, N.N., akad.; BGGATYREV, A.S.; AFANAS'YEV, A.V., prof.; BYKOV, B.A.; SHAKHMATOV, V.F., kand. istor. nauk; POKROVSKIY, S.N., akad.; SAVOS'KO, V.K., kand. istor. nauk; NUSUPBEKOV, A.N., kand. istor. nauk; BAISHEV, S.B., akad.; GOROKH-VODATSKIY, I.S., kand. istor. nauk; AKHMETOV, A., kand. istor. nauk; RAKHIMOV, A., kand. istor. nauk; PIVEN', N.F.; CHULANOV, G.Ch., doktor ekonom. nauk; BOROVSKIY, V.A., kand. ekonom. nauk; SYDYKOV, A.S., kand. pedagog. nauk; ZHANGEL'DIN, T., kand. filos. nauk; KARASAYEV, L.K.; KANAPIN, A.K., kand. istor. nauk; BELENOV, M.D., kand. ekonom. nauk; KARYNBAYEV, S.R., kand. med. nauk; AKHMETOV, K.A.,; SMIRNOVA, N.S., doktor filolog.nauk; YERZAKOVICH, B.G., kand. iskusstvovedcheskikh nauk; RYBAKOVA, N.; MUKHTAKOV, A.I.; BOGATENKOVA, L.I.; KUNDAKBAYEV, B.; SIRANOV, K.S.; SHVYDKO, Z.A., red.; MAMTSOVA, L.B., red.; ZLOBIN, M.V., tekhn. red.

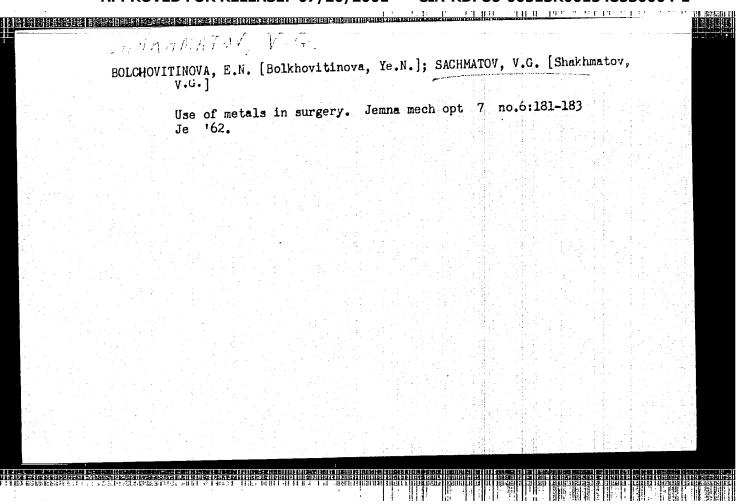
[The Soviet Kazakh Socialist Republic] Kazakhskaia Sovetskaia Sotaialisticheskaia Respublika. Alma-Ata, Kazakhskoe gos. izd-vo, 1960. 477 p. (MIRA 14:6)

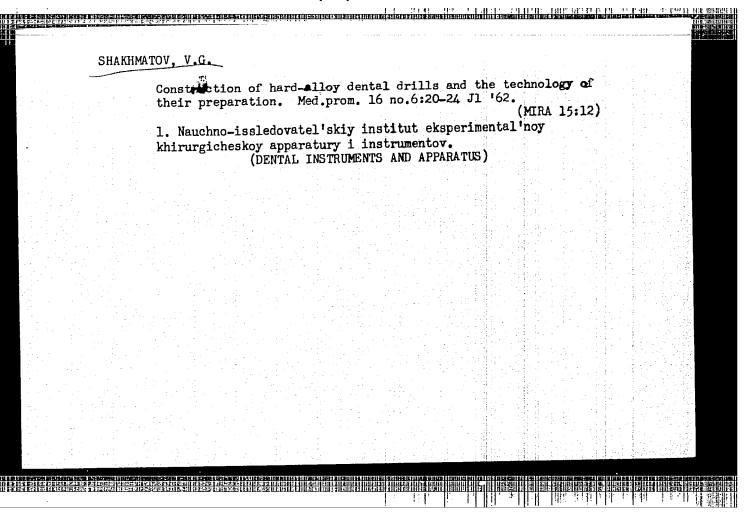
1. Akademiya nauk Kaz.SSR (for Pal'gov, Pokrovskiy, Baishev)
2. Chlen-korrespondent Akademii nauk KazSSR (for Bykov, Smirnova, Sil'chenko)

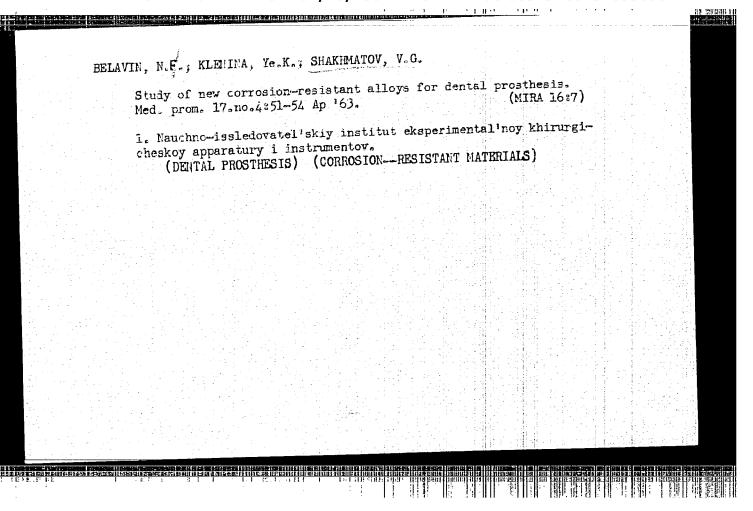
(Kazakhstan)

BOLKHOV	ITINOVA, Y	Ye.N.; SI	IAKHMATOV	V.G.								
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ACC NR: AT6012411 SOURGE CODE: UR/0000/65/000/000/0325/0328

AUTHORS: Belavin, N. F.; Shakhmatov, V. G.

ORG: none

TITLE: Investigation of the possible use of titanium alloys for surgical instruments, devices, and methods of connecting tissues

SOURCE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana i yego splavov, 6th. Novyye issledovaniya titanovykh splavov (New research on titanium alloys); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 325-328 surgical equipment, wear resistance, high strength alloy, corrosion resistance, TOPIC TAGS: medical equipment, titanium alloy, stainless steel, metal property, bending strength /VT5-1 titanium alloy, OT4-1 titanium alloy, VT14 titanium alloy, 3Kh13 stainless steel, Kh18N9T stainless steel, IMP1-A titanium alloy

ABSTRACT: The possible use of titanium alloys for surgical instruments and devices was considered qualitatively and to some extent experimentally. The most desirable features of a metal for this application are high strength (primarily in bending), resistance to wear, and resistance to corrosion. Titanium alloys IMPI-A, VT5-1, OT4-1, and VT14 were investigated in these three categories and compared with stainless steels 3Khl3 (strength) and Khl8N9T (corrosion resistance). Alloys VT5-1, OT4-1, and VT14 were found to have approximately the same strength in bending and, although lower than 3Khl3, were found acceptable. Wear characteristics of the

Card 1/2

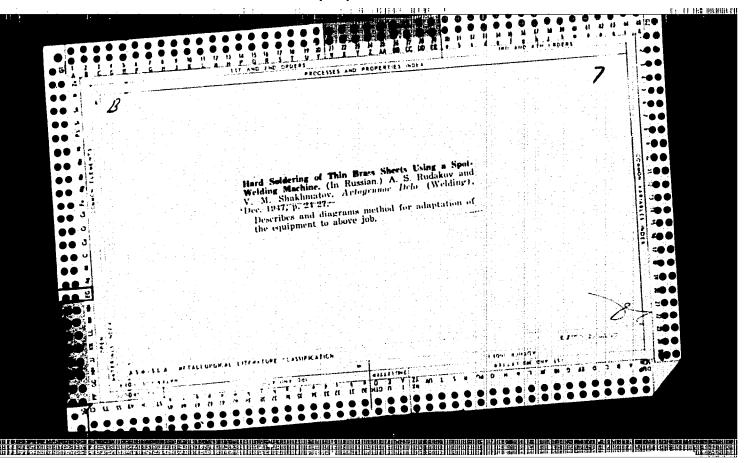
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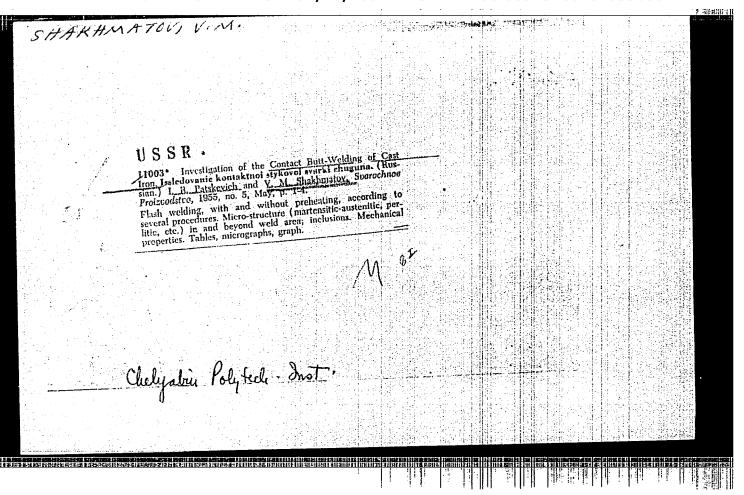
titanium alloys were tested and were found to be 0.35, 0.96, 0.22, and 1.2 (mm/half hour) respectively for VT5-1, 0T4-1, VT14, and IMPL-A (unplated) and 0.015, 0.02, 0.009, and 0.03 with hickel-phosphorus plating. After 48 hours submersion in 10% iodine solution, alloy IMPl-A showed a very small amount of point corrosion while the other alloys were practically unaffected. It was also found that the alloys could be successfully soft-soldered to each other and to steel 3Khl3. It is concluded that these alloys could be used for surgical instruments and devices. Orig. art. has: 2 figures and 1 table.

SUB CODE: 11, 13, 06/ SUEM DATE: O2Dec65/ ORIG REF: 003/ OTH REF: 001

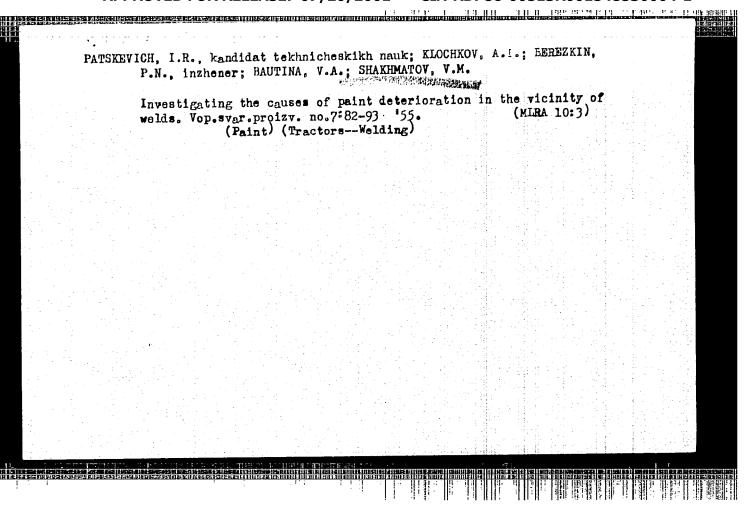
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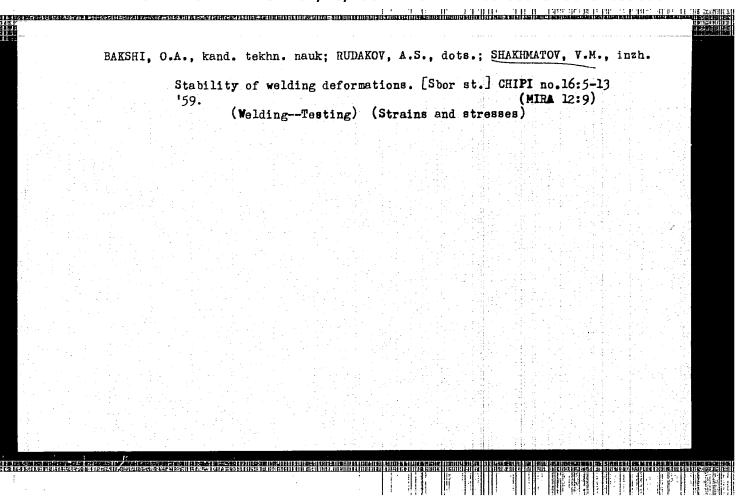
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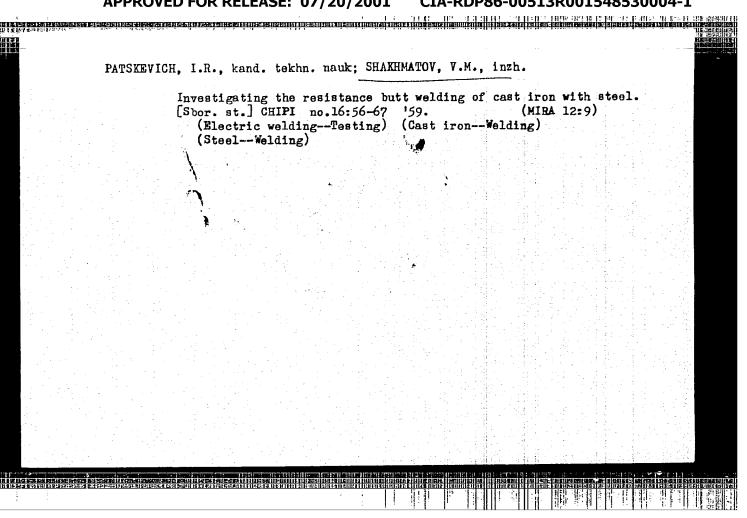


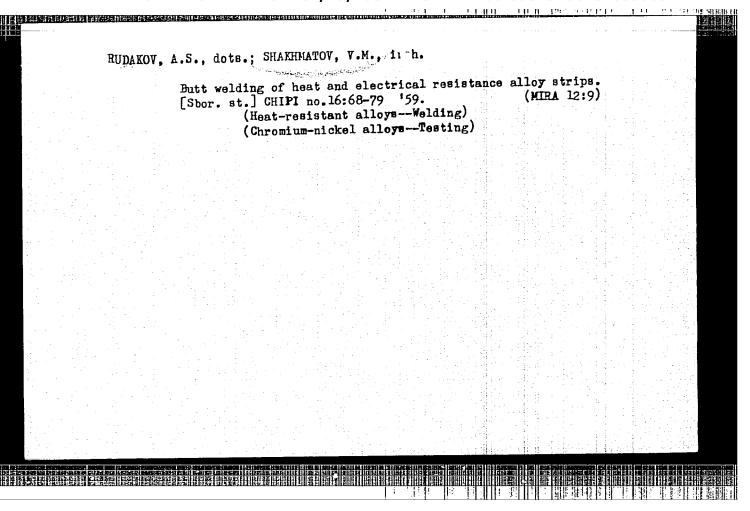


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SHAKHMATOV, Vosiliy Mikhaylovich; MaSLOV, Yu.A., inzh., red.; DUGINA,
N.A., tekhn.red.

[Welding of cast iron] Svarka chuguna. Moskva, Gos.nsuchnotekhn, izd-vo mashinostroit, 11t-ry, 1960. 32 p. (Neuchnopopuliarnais biblioteka rabochego-svarshchika, no.16)

(Cast iron—Welding)

(Cast iron—Welding)

Effect of structure-free graphite on the resistance cast iron. Svar.proizv. no.10:19-21 0 64.	til til til som en	of gray IRA 18:1)	
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이 그 그렇게 한글 그리가 살다고 말을 가게 걸렸다.			
			tyra et jaggetők:

SHAXHMATOV, V.M., kand. tekhn. nauk; RUDAKOV, A.S., inch.; PODKORYTOV, Ye.T., inch.

Butt welding of cast iron sewer pipes with shaped fibrings.
Sver. proizv. nc.4:18-20 Ap '65. (MIRA 18:6)

I. Chelyabinskiy politekhnichcakiy institut (for Shakhmatov, Rudakev). 2. Chelyabinskiy treat "Yuzhuralsantakhmantazh" (for Podkorytov).

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